



15 Park Avenue
Gaithersburg, MD 20877

Memorandum

From: Steve Willis
To: Wayne Miller
Date: April 1, 2020
Subject: March 30, 2020 Site visit to observe retrieval of BioTrap™ samplers at Former Williams Air Force Base Site ST012.

Mr. Miller:

On March 30, 2020 UXO Pro accompanied ADEQ on a site visit to the Former Williams Air Force Base Site ST012 to observe groundwater sampling activities associated with the Enhanced Bioremediation (EBR) program. Mr. Pat Collins of Wood Group retrieved BioTrap™ samplers from wells UWBZ26, UWBZ27, LSZ38, and LSZ39. The samplers were previously deployed on February 24, 2020.

Each well contained two samplers deployed at approximately the same depth within the screened zone of the individual well. The purpose of deploying two samplers per well was to determine if there would be a significant change in concentrations of benzene-degrading organisms in samplers deployed for durations of 5 and 8 weeks. The March 30 sampler retrieval event represented the 5-week deployment interval.

Mr. Collins attempted to remove a single sampler from each well in accordance with the sampling plan. However, the sampling strings had become entwined during the 5-week interval and it was not possible to remove a single sampler from any of the wells. Upon bringing the samplers to the surface, one of the samplers was cut from its string, sealed inside a sampling mailer, and placed in a cooler for shipment to Microbial Insights for analysis of benzene-degrading bacteria via Stable Isotope Probe (SIP). The remaining BioTrap™ sampler was re-deployed into the well using new string at approximately the same depth as originally deployed.

Photos taken during the site visit are included in Attachment 1.

Please contact me at (480) 316-3373 or e-mail at steve@uxopro.com if you have comments or questions regarding this memorandum.

Thank you,

A handwritten signature in black ink that reads 'Steve Willis'.

UXOPro, Inc.

ATTACHMENT 1
SITE PHOTOS

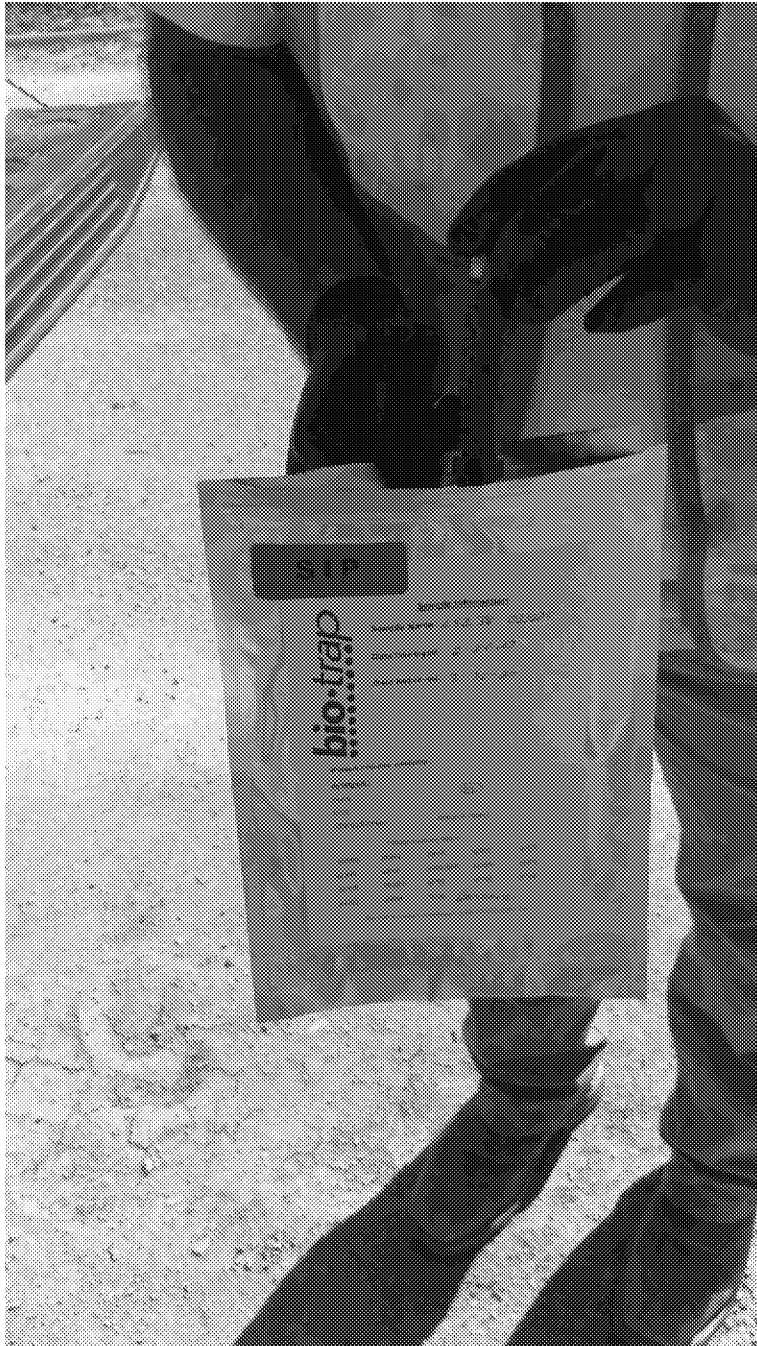


Photo 1. Collecting the BioTrap™ sampler from well LSZ38.

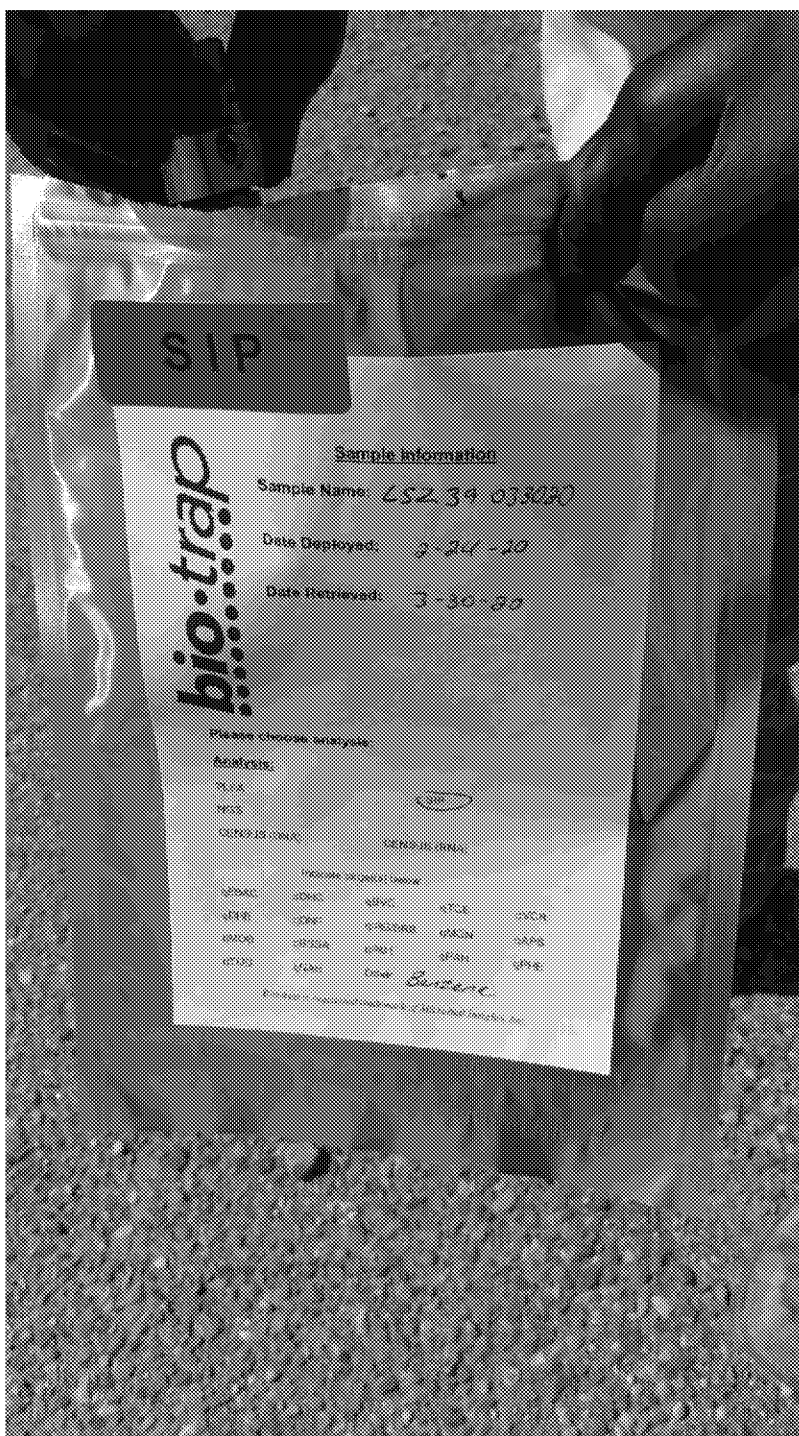


Photo 2. Collecting the BioTrap™ sampler from well LS239.

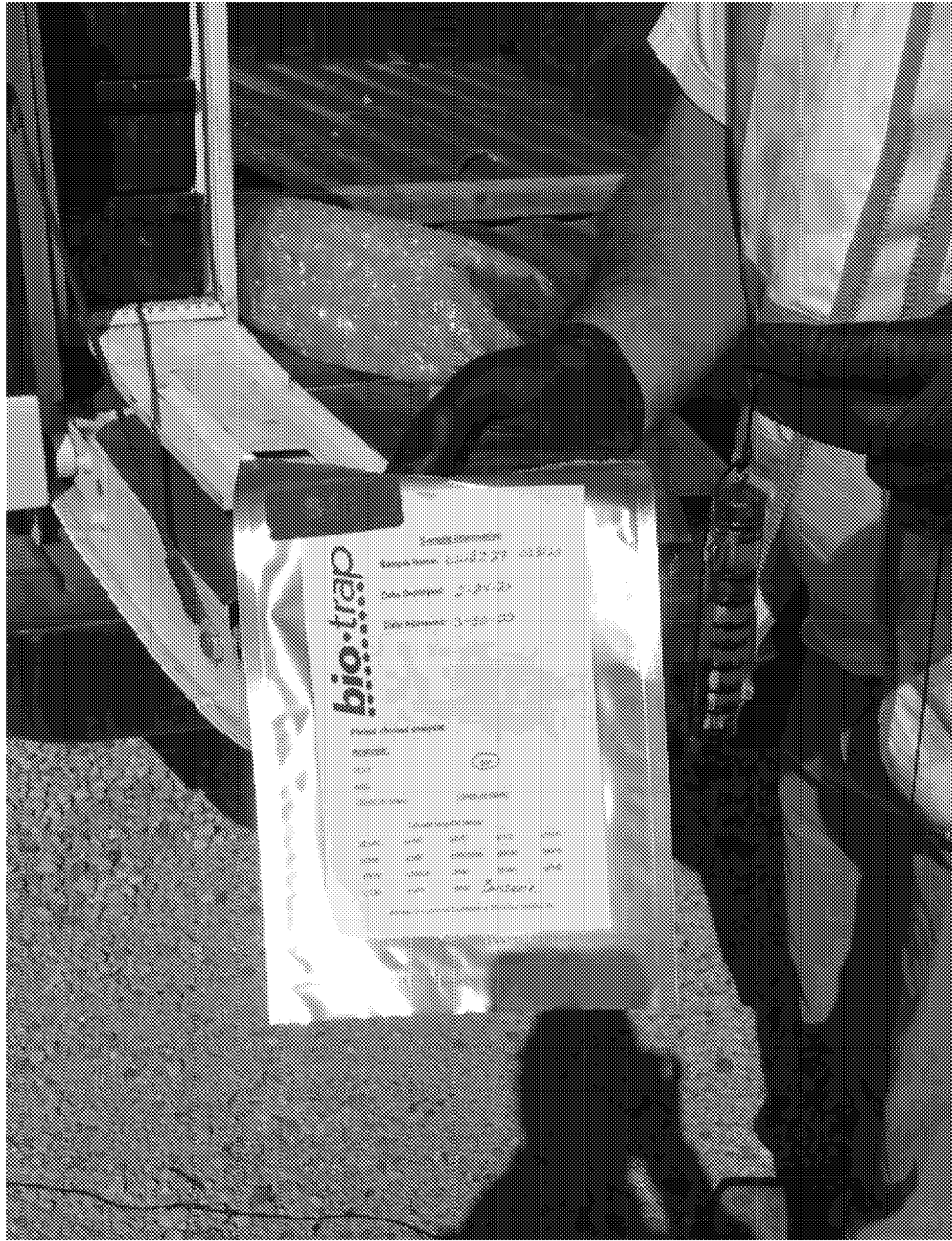


Photo 3. Collecting the BioTrap™ sampler from well UWBZ27.

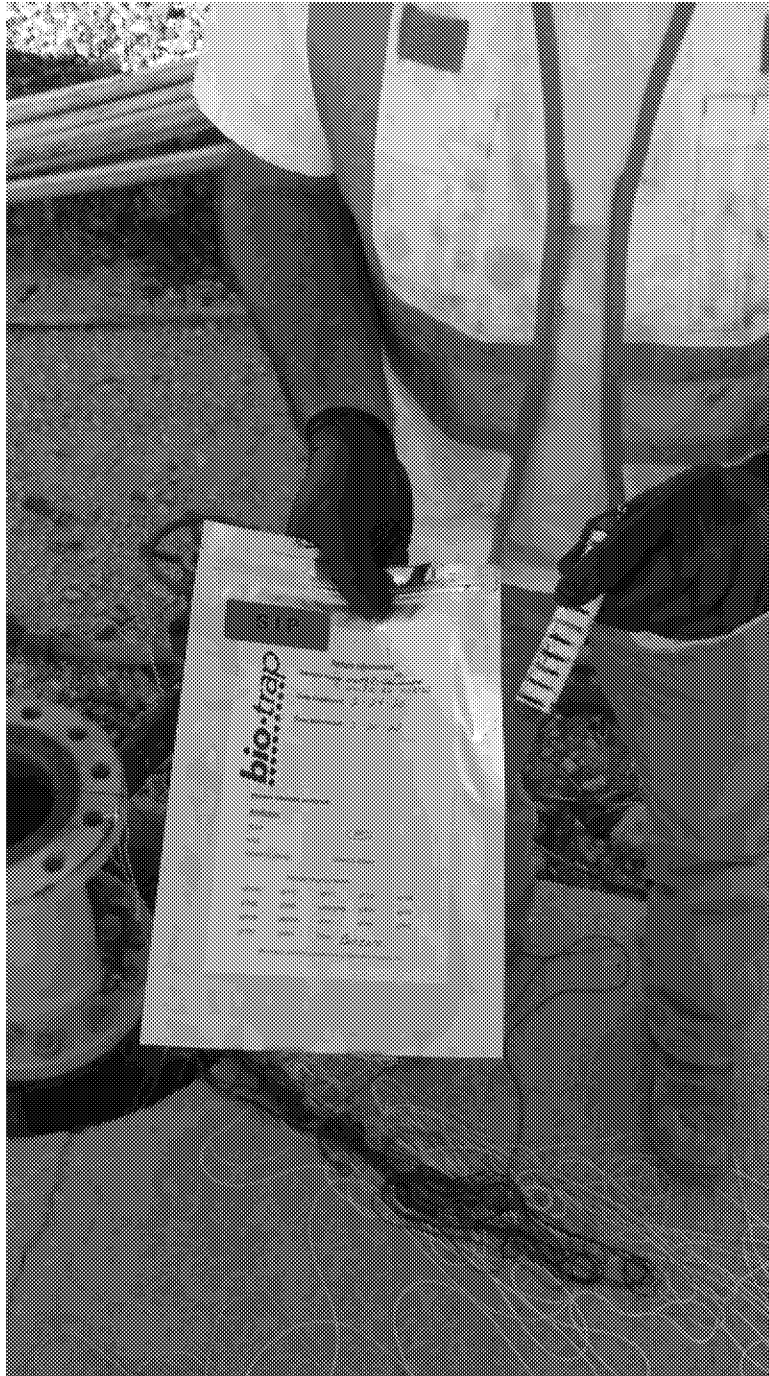


Photo 4. Collecting the BioTrap™ sampler from well UWBZ26.



Photo 5. Preparing to re-deploy the Biotrap™ sampler into well UWBZ26.